6) RESEARCH PROCESS [Importance of each step in brief]

Research: Means search for knowledge.

Revearch process: It comprises defining and re-defining problem, formulating hypothesis, suggested solutions, collecting, organizing and evaluating data, making deductions and reaching conclusions (clifford Woody)

Characteristic Features of Rusearch are:

- a) systematic solving of scientific problems,
- D Using scientific methods for solving.
- c) System of intercorrecting phases and steps.
- d) Valid and verifiable problems
- e) Empirical and writically analysing the problem.

Ruserch Methods:

Research methods are the tools for Research process.

There are mainly two nettods are,

a) Inductive Method

-> In this meltod, the vesearcher starts his activity from the whole and varives at the part.

Eg: out of all the etiological factors for pancrealities alcohol is universally as a sole cause.

6) Deductive Method :

-> It is opposite of inductive meltod. Eg: Assessment of Prakrushi in an individual by observation and confirming it by Prakouthi analysis.

Lifference between Inductive and Deductive Approach to Research:

- · Inductive theory is an approach to research that starts with the observation and the end result of the research is theory.
- · Deductive theory is an approach to research that starts with the proposition of hypothesis and the end result of the research le confirmation rejection.

Steps in Research Process:

→ In the Research process, there were 7 main steps to conduct any Research project. They are as follows mentioned in the flow chart

- 1. Selection of the Topic
- 2. Review of Literature
- 3. Formulation of Hypothesis
- 4. Aims and Objectives
- 5. Materials, and Methods
- 6. Observations and Results
- 7. Discussion and Conclusion

1) Selection of the topic:

> To identify any, Research problem and developing your topic of interest. Before selecting any problem, the researcher should ask him / herself questions such as:

- i) what is to be studied?
- iv) How to study?
- i) when to study?
- V) why to study?
- iii) where to study?

- -> The 2 things Researcher should keep in mind while selecting research foroblem:
 - · The particular Research must add onto the existing knowledge. If it is not going to provide a new concept, at least it should be able to verify old knowledge.
 - · The Research work should be useful in keeping prescriby of public health policies.
 - 2) Review of Literature: (finding background information)
- > To carry out any new Research work, the researcher has to refer the previous works done by the scientists in the concerned field. The moon goal of any research work is to contribute in the knowledge domain and to improve the professional practice.
- -> Review of literature can be done through.
 - · Primary sources are the databases that contain information about research articles that are published on the topic of interest.
 - · Secondary sources are the literature reviews that are bublished on topic of interest, consisting of ia synthesis and analysis of previous researches published on that tokic.

Sources of information:

- · Previous work done
- · All classical textbooks
- modern lext books.
- Research articles published in the indexed journals like
- · ARDB Ayurvedic Research Database: a unique computer based database in the field of Ayurweda.

3) Formulation of Hypothesis:

· Hypothesis is a proposition or an assumption that one attempts is verify through experimentation or observation.

Eq: Students study more effectively in a quiet place than in noisy one.

· The hypothesis is a tentative assumption made in order to draw out or test its logical and empirical consequences.

- · It is reful to give the direction to the Researcher and it keeps the researcher on right track.
- . It should consist of more established facts.

Types of Hypothesis:

There are two types of Hypothesis.

- a) Null hypothesis (HO)
 - b) Alternative hypothesis (H1)
- a) Null hypothesis (Ho) One which is to be disproved.

 There researcher believes there is no relationship between the two variables or there is lack of information to state in scientific hypothesis.

Eg: Green tea Basti doesn't have effect in obesity management.

b) Alternative hypothesis (H1) - One which is to be foroved.

Here researcher attempt to disprove a null hypothesis.

Here researcher believes there is relationship between the two variables.

Eq: Green tea Basti does have effect in obesity management.